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#include <WProgram.h>
#include <Wire.h>
#include <DS1307.h> // written by mattt on the Arduino forum and modified by D. Sjunnesson

void setup()
{
  Serial.begin(9600);

  RTC.stop();
  RTC.set(DS1307_SEC,1); //set the seconds
  RTC.set(DS1307_MIN,23); //set the minutes
  RTC.set(DS1307_HR,12); //set the hours
  RTC.set(DS1307_DOW,4); //set the day of the week
  RTC.set(DS1307_DATE,15); //set the date
  RTC.set(DS1307_MTH,7); //set the month
  RTC.set(DS1307_YR,10); //set the year
  RTC.start();
}

void loop()
{
  Serial.print(RTC.get(DS1307_HR,true)); //read the hour and also update all the values by
  pushing in true
  Serial.print(":");
  Serial.print(RTC.get(DS1307_MIN,false)); //read minutes without update (false)
  Serial.print(":");
  Serial.print(RTC.get(DS1307_SEC,false)); //read seconds
  Serial.print(" "); // some space for a more happy life
  Serial.print(RTC.get(DS1307_DATE,false)); //read date
  Serial.print("/");
  Serial.print(RTC.get(DS1307_MTH,false)); //read month
  Serial.print("/");
  Serial.print(RTC.get(DS1307_YR,false)); //read year
  Serial.println();

  delay(1000);
}

```